## ISSUE SLIP STAPLE AREA (for addingual cross references)

| POSITION            | INITIALS | ID NO.        | DATE      |
|---------------------|----------|---------------|-----------|
| FEE DETERMINATION   | TIDE     |               | 10/27/98  |
| O.I.P.E. CLASSIFIER |          | ك -           | 5 11-2-89 |
| FORMALITY REVIEW    | ピンク      | 16 1 2 7 E 27 | 11/16/66  |

## **INDEX OF CLAIMS**

| ~ | Rejected                   | N | Non-elected  |
|---|----------------------------|---|--------------|
| = | Allowed                    | 1 | Interference |
| _ | (Through numeral) Canceled | Α | Appeal       |
| ÷ | Restricted                 | 0 | Objected     |

| ,        |          |        | ,_                 | _,                         | _                |          |          |                 |          |                 |          |          | _                                       | _        |          |              |          |  |          |          |          |          |          |              |          |            |               |            |          |                |          |          |                |            |          |                |          |
|----------|----------|--------|--------------------|----------------------------|------------------|----------|----------|-----------------|----------|-----------------|----------|----------|---|----------|----------|--------------|----------|--|----------|----------|----------|----------|----------|--------------|----------|------------|---------------|------------|----------|----------------|----------|----------|----------------|------------|----------|----------------|----------|
| ١        | Cla      | im     | L                  | _                          |                  |          | _D       | ate             |          |                 |          | , .      | ╛                                       | Ci       | aim      | m Date Claim |          |  |          |          |          |          |          |              | im       | Date       |               |            |          |                |          |          |                |            |          |                |          |
| Ì        | Final    | 쿌      | 1-100              | 1300/                      | 6                | ۱۱       |          |                 |          |                 | ı        |          |   |          | ᇢ        |              |          |  | !        | 1        |          |          |          |              |          |            |               | ᡖ          |          |                |          | ļ        | ĺ              |            |          |                |          |
| -        | ē        | 휻      | 7                  | 19                         | ľ                | Ĭ        | • ]      |                 |          |                 |          | -        |   | Final    | Original | 1            | 1        | i  | 1        |          |          |          | i        | 1            |          | - 1        | Final         | Original   |          |                |          | İ        | l              | l          | 1        |                | l        |
| }        | -        | 2      | ÷                  | β,                         | ŲÌ               | <u>}</u> | +        | +               | ╀        | ╀               | ╄        | 1-       | 4                                       | Œ        |          | <b>L</b>     | ⊢        | ↓_   | L        | ļ.,      | ┡        | ļ.       | ↓_       | L            | Ш        | L          | _             |            | ┞        | L              | _        |          | ╙              | L          | <u> </u> | L              | ᆫ        |
| }        | $\dashv$ | 2      | 4                  | 14                         | 4                | 4        | ╁        | +-              | +        | ╀               | ╁        | ╀        | -                                       | $\vdash$ | 51       | ┞            | ┡        | ╀  | ļ        | <u> </u> | ┞        | ┡        | ↓_       | ↓_           | Н        | L          | $\overline{}$ | 110        | _        | <u> </u>       | ╄        | L        | ╙              | ╙          | L        | L              | L        |
| ŀ        | -        | 3      | #                  | H                          | Н                | +        | +        | ╁               | ╀        | ╀               | ╀        | ┾        | -                                       | $\vdash$ | 52<br>53 |              | ├        | ╁  | -        | ├-       | ├-       | H        | ⊢        | ├-           | Н        | -          |               | 112        | ╀        | ╀              | ┺        | ┞        | ┞              | ┡          | L        | <del> </del> _ | ш        |
| ł        | -        | 4      | Н                  | Н                          | Н                | ╀        | +        | ┿               | ╄        | ╀               | ╄        | ╄        | ┨                                       | $\vdash$ | -        | ٠.           | -        | ┼  | <u> </u> | ├-       | -        | -        | ⊢        | <b>├</b>     | Н        | - 1        |               | 113        | ┞        | ┺              | -        | ┞-       | ┡              | <b> </b> _ | Ļ        | ㄴ              | L.       |
| ł        | ┪        | 5      | Н                  | Н                          | Н                | ╁        | +        | +-              | +-       | +               | ╫        | ╆        | ┨                                       | $\vdash$ | 54<br>55 |              | ⊢        | ├  | ┝        | ╁        | ┢        | -        | ╁        | <del> </del> | Н        | H          | _             | 114<br>115 | -        | ⊢              | ╁        | ⊢        | ⊢              | ⊢          | ⊢        | ├              | ⊢        |
| ŀ        | $\dashv$ | 6      | Н                  | Н                          | H                | +        | ╁        | ╁               | ╁        | ╁               | ╁╌       | ╀        | ┨                                       | $\vdash$ | 56       | $\vdash$     | -        | -  |          | -        | ⊢        | ╁╌       | ┢        | -            | Н        | ⊢          | -             | 116        | ├        | ╀              | ├        | ┢        | ⊢              | ├-         | ⊢        | ⊢              | ├-       |
| ŀ        | +        | 7      | Н                  | U                          | Ħ                | ╁        | ╁        | +               | ╁        | +               | ╁        | ╁        | 1                                       | -        | 57       | ╁            | ┢        | H  | ╁        | ┢        | $\vdash$ | $\vdash$ | ├        | H            | H        | ⊢          | _             | 117        | ⊢        | ╁              | ╀        | $\vdash$ | ├              | ┢          | ├        | ⊢              | ⊢        |
| ł        | $\dashv$ | 8      | Н                  | Č                          |                  | +        | +        | ╈               | +        | +-              | +        | ╁        | 1                                       | $\vdash$ | 58       | ╁            | ┢        | $\vdash$                                     | ╌        | ├-       | ⊢        | ⊢        | ╁        | H            | Н        | ⊢          | _             | 118        | ⊢        | ╀╌             | ╁        | ⊢        | <del> </del> − | ┝          | ₩        | ⊢              | Η-       |
| ŀ        | -        | 9      | H                  | Ĭ                          |                  | +        | +        | +-              | ✝        | ╁               | ╁╌       | +        | ┨                                       | $\vdash$ | 59       | ╀            | $\vdash$ | $\vdash$                                     | -        | ╁─       | ┝        | ┢        | ╁╌       | $\vdash$     | Н        | ⊢          |               | 19         | ⊢        | ╁              | ╁        | ╀        | ⊢              | ├-         | ⊢        | ⊢              | H        |
| ı        | T        | 10     | H                  | ΙŤ                         | tt               | +        | ✝        | $\top$          | ✝        | †-              | T        | $\vdash$ | 1                                       | $\vdash$ | 60       |              | ┢        | 1  | ┢        | -        | $\vdash$ | ╁        | ┼─       | Н            | Н        | ⊢          | _             | 10         | -        | ╁╌             | ╁        | ┢        | ┢              | -          | ├        | H              |          |
| ı        |          | 11     | П                  | Ħ                          | Ħ                | T        | $\top$   | T               |          | t               | 1        | t−       | 1                                       | 十        | 61       | H            | -        | $\vdash$                                     |          | ┢        |          |          | $\vdash$ | Н            | Н        | H          |               | 111        | ╌        | t              | ┢        | ┢        | ╁              | -          | H        | $\vdash$       | $\vdash$ |
| Ī        | 1        | 12     | П                  | Ħ                          | П                | T        | $\top$   | 1               | 1        | ✝               | T        |          | 1                                       | $\vdash$ | 62       |              | <u> </u> | t  | $\vdash$ |          | H        | <u> </u> | $\vdash$ | Н            | $\vdash$ | <u> </u>   | _             | 12         | Н        | ┼              | H        | ┢        | <del> </del>   | ┢          | Н        | Н              | F        |
| Ī        | T        | 13     | П                  | П                          | П                | Τ        | 1.       | Τ               | T        | T               | T        | T        | 1                                       |          | 63       | $\vdash$     | Г        |  |          |          | Т        | Г        | 1        | П            | $\vdash$ | 卜          | -             | 113        | $\vdash$ | $\vdash$       | t-       | Т        | H              | 1          |          | Н              | Н        |
| T        | J        | 14     | $\prod$            |                            | П                |          | Τ        | 1               | 1 -      | 1               |          | Γ        | 1                                       |          | 64       |              | Г        |  | Т        |          |          | T        |          | Н            | $\vdash$ | -          |               | 114        | 1        | ┢              | $\vdash$ | $\vdash$ | H              |            | Н        | $\vdash$       | $\Box$   |
| ſ        |          | 15     | σ                  | П                          | П                | Ι        |          | Ŀ               | Ι        |                 |          |          | 1                                       |          | 65       | Г            | Г        | Г  |          | Г        | Г        |          | П        | М            | $\dashv$ | F          |               | 15         | Г        | T              | Г        | Г        |                | T          | Н        | Н              | $\vdash$ |
|          | J        | 16     | $\coprod$          | $\coprod$                  | Π                | Ι        |          |                 |          |                 |          |          | li.                                     | Г        | 66       | erate.       | Ξ,       |  |          |          |          |          |          |              | $\Box$   |            |               | 16         |          |                | Г        | Γ        | Г              |            | П        | Н              | $\vdash$ |
|          | Ţ        | 17     | П                  | $\prod$                    | П                | ŀ        | 1,25     |                 | -        | rhoter.         | 200      | V:Fr     | ار.<br>د - د - د                        |          | 67       |              |          |  |          |          |          |          |          |              | Π.       | -          | -             | 17         | ٠.       |                |          |          | ┢              |            | П        | П              |          |
|          | _        | 18     |                    | П                          | П                | Ŀ        | $\perp$  |                 |          | ľ               |          |          | ]                                       |          | 68       |              |          |  |          |          |          |          |          |              | $\neg$   | F          | 1             | 18         |          | ٠.             | Ι.       |          | Г              |            | П        |                |          |
| ٠.       |          | 19     | $\perp$            | 椞                          | $  \downarrow  $ | <u>1</u> |          |                 | Ĺ        |                 |          |          | ]                                       | ٤        | 69       |              |          |  |          |          |          |          |          |              | $\neg$   |            | 1             | 19         |          |                |          |          |                |            | П        |                |          |
| Î        | Č        | 30)    |                    | N                          | ŀ                |          |          |                 |          | T               |          |          | 1                                       | 7        | 70       |              |          |  |          |          |          |          |          | П            |          |            | 1             | 20         |          | Г              |          |          |                |            |          |                |          |
| ľ        | 1        | 21     | $\mathbf{I}$       | I                          |                  | L        |          |                 |          | Γ               |          |          | 1                                       | Г        | 71       |              |          |  |          | П        |          |          |          | $\neg$       |          | <u> </u>   | 1             | 21         | _        |                |          |          | -              |            | П        | П              | $\dashv$ |
|          |          | 22     | $oxed{\mathbb{L}}$ | $\mathbb{L}$               | ŀ                | Π        | Τ        | -               |          |                 |          | П        | 1                                       |          | 72       |              |          |  |          |          |          |          | П        | T            |          |            |               | 22         |          |                | -        | П        | _              | П          |          | П              | $\dashv$ |
|          | _        | 23     | П                  |                            | L                | ľ        |          |                 |          |                 |          |          |   | Г        | 73       |              |          |  |          |          |          |          |          |              | 7        | 一          | 7             | 23         |          | Т              | Г        | П        |                |            | П        | П              | ٠.       |
| L        | _        | 24     | Ш                  | Ł                          |                  | L        |          |                 | L        | $\Box$          |          |          |   |          | 74       |              |          |  |          |          |          |          |          |              |          |            | 1             | 24         |          |                |          |          |                |            | П        | П              | $\neg$   |
| L        |          | 5)     | Ш                  | V                          | LY               | 1        |          | ·               | L        |                 | L        |          |   |          | 75       |              |          |  |          |          |          |          |          |              | $\neg$   | Г          | 1             | 25         |          |                |          |          |                |            |          | ,.             |          |
| L        |          | 6      | Ц                  | L                          | Ц                | L        | Ŀ        | L               | Ŀ        |                 |          |          |   |          | 76       |              |          |  |          |          |          |          |          |              | ╗.       |            | h             | 26         |          |                |          |          |                | •          |          | П              | - 1      |
| L        |          | 27     | H                  | 1                          | Ц                | Ŀ        | ↓_       | L               | _        |                 |          |          |   | L        | 77       |              |          |  |          |          |          |          |          |              |          |            | h             | 27         |          |                |          |          |                |            |          |                |          |
| L        |          | 8      | Ц                  | 1                          | Ц                | Ļ        | ↓_       | L               | L.       |                 | L,       | Ŀ        | l                                       |          | 78       | _            |          |  |          | ,        |          |          |          |              |          |            | 1             | 28         |          |                |          |          |                |            |          |                |          |
| ŀ        | -3       | 9      | 11                 | 1/                         | V                | 1_       | 1_       | L               |          |                 | L        |          | ľ                                       | L        | 79       | _            |          |  | $\Box$   |          |          |          |          | $\perp$      |          |            | _             | 29         |          |                |          |          |                |            |          | $\Box$         | $\Box$   |
| F        |          | 9      | Н                  | Ň,                         | L                | ļ.,      | ╄        | <u> </u>        | _        | . 1             | -        |          | l                                       | Ц        | 70       | _            | _        | $\Box$                                       | _        | _        | _        |          | _        | _            | _        |            | -             | 30         |          |                |          |          |                |            |          | $\Box$         | $\Box$   |
| F        |          | 31     | H                  | +                          | _                | ļ        |          | L               | _        | $\vdash$        | H        | Щ        |   | L        | 81       | _            | _        | _  | _        | _        |          |          | _        | _            | _        | L          |               | 31         |          |                |          |          |                |            |          | $\perp$        | _        |
| ┝        | _        | 12     | H                  | 1                          |                  | L        |          | Ļ               | Ш        | Щ               | Щ        |          | ٠,                                      | L        | 82       | 4            | 4        | _  | _        |          | _        | _        | _        | _            | _        | L          | -             | 32         |          |                |          | $\Box$   |                |            |          |                | _        |
| $\vdash$ |          |        | -                  | Y                          | ١,               | ┡        | ↓_       | $\vdash$        | _        | Н               | Ш        |          | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Щ        | 83       |              | 4        | <u>.                                    </u> | _        | 4        | _        | _        | _        | 4            | _        | $\vdash$   | _             | 33         | _        |                |          |          |                |            | _        | _              |          |
| -        |          | 5      | ₩                  | $\stackrel{\checkmark}{+}$ | Y                | $\vdash$ | ┼        | $\vdash$        | H        | $\vdash$        | Н        |          |   | Н        | 84       | -            | 4        | _  |          | $\dashv$ | 4        |          | _        | $\dashv$     | _        | $\vdash$   | _             | 34         | _        | Ц              | Ш        | _        | Ц              | _          | _        | ᆚ              | _        |
| 1        | 3        | _      | H                  | H                          | +                | ⊢        | ┼        | $\vdash$        | Н        | Н               | Н        | Н        |   |          | 85<br>86 |              | -        | -  | $\dashv$ | -        | -        | -        |          | $\dashv$     | $\dashv$ | $\vdash$   | _             | 35         | 4        | $\dashv$       | $\dashv$ | 4        | 4              | _          | _        | 4              | ┙        |
| $\vdash$ |          | 7      | ₩                  | $\prod$                    | +                | $\vdash$ | +-       | Н               | Н        | Н               | Н        | Щ        |   | -        | 87       | -            | -        | -  | -        | -        | 4        |          | -        | $\dashv$     | $\dashv$ | $\vdash$   | _             | 36         | 4        | Ц              | Ш        | 4        | 4              | 4          | 4        | $\dashv$       | 4        |
| H        |          | 8      | ╁╂                 | ö                          | 1                | ┝        | ┼─       | Н               | H        | -               | -        | $\vdash$ |   |          | 88       | -+           | ᅱ        |  | -        | -        | $\dashv$ | $\dashv$ | -        | $\dashv$     |          | $\vdash$   | -             | 37         | $\dashv$ | _              | _        | -        |                | _          | -        | $\dashv$       | ႕        |
| ┢        | Ø        |        |                    | 7                          | צ                | ┝        | ┼-       | Н               | $\dashv$ | Н               | Н        | $\dashv$ |   | -        | 89       | -+           | -        | -  | -        |          | 4        | $\dashv$ |          | $\dashv$     |          | <u> </u> - | _             | 38         | -        | -              | $\dashv$ | -        |                | -          | 4        | -              | -1       |
| -        | 7        | 퀽      | ₩                  | 4                          | _                | ┢        | $\vdash$ | Н               | $\vdash$ | Н               | Н        | $\dashv$ |   | _        | 90       | $\dashv$     |          | +  | $\dashv$ | $\dashv$ | -        | 4        | -        | $\dashv$     | $\dashv$ | $\vdash$   | -             | 39         | 4        | $\vdash$       | -        | 4        |                | $\dashv$   | $\dashv$ | 4              | $\dashv$ |
| $\vdash$ | 4        | -      | ╫                  | Н                          | _                | -        | ╆        | Н               | Н        | Н               | H        |          |   | -        |          | $\dashv$     | -        | 4  | $\dashv$ | $\dashv$ | 4        | 4        | $\dashv$ | $\dashv$     | 4        | -          | -             | 10         | _        | $\dashv$       | 4        | 4        | _{             | _          | 4        | 4              | $\dashv$ |
| $\vdash$ |          |        | #                  | H                          | _                | -        | ⊢        | Н               | $\vdash$ | Н               | $\dashv$ |          |   | -        | 91       |              | 4        |  |          | 4        | 4        |          |          | 4            | 4        | -          | _             | 41         | _        | _              | _        | _        | _              | _          |          | 4              | 4        |
| $\vdash$ | - 5      | 2<br>3 | ₩                  | H                          |                  | ⊢        | ⊢        | ╁┤              | $\dashv$ | Н               | $\dashv$ |          |   | -        | 92       | -            | -        | -  |          | 4        | 4        | 4        | $\dashv$ | +            | 4        | -          | +-            | 42         | 4        | 4              | _        | _        | _¦             | _          |          | 4              | 4        |
| $\vdash$ | Ŧ        | 4      | ¥                  | ¥                          |                  | ۱        | Ļ        | ⊦⊣              | $\dashv$ | $\vdash$        | $\vdash$ | -        |   |          | 93       | +            | $\dashv$ | $\dashv$                                     | 4        | $\dashv$ | +        | -        | $\dashv$ | 4            | $\dashv$ | $\vdash$   |               | 43         | 4        |                | 4        | 4        | _              |            | 4        | 4              | 4        |
| $\vdash$ | 4        | 5      | +                  | -                          |                  | $\vdash$ | ├-       | ⊢┤              | $\dashv$ | $\vdash \vdash$ | -        | $\dashv$ |   |          | 94<br>95 | +            | 4        | -  | $\dashv$ |          | 4        | 4        | _        | $\dashv$     | 4        | $\vdash$   |               | 44         | 4        | _              | -        | 4        | _              | 4          | 4        | _              | 4        |
| -        | 4        |        | $\dashv$           | -1                         |                  | -        | ├-       | ┝┤              | $\dashv$ | $\vdash$        | $\dashv$ | $\dashv$ |   |          | 96       | +            | -        | 4  | 4        | +        | -        | $\dashv$ | $\dashv$ | +            | 4        | $\vdash$   |               | 15         | 4        | -              | -        | 4        | 4              | $\dashv$   | 4        | 4              | 4        |
| H        | 4        |        | +                  | ┪                          | _                | -        | ╁        | ├┤              |          |                 | -        | 닉        |   | H        | 96<br>97 | -+           | -        | -  | +        | $\dashv$ | $\dashv$ | $\dashv$ | -        | -+           | $\dashv$ | $\vdash$   | Ľ             | 16<br>17   | 4        | -              |          | $\dashv$ | -              |            | 4        | 4              | 4        |
| $\vdash$ | 4        |        | $\dashv$           | -                          |                  |          | ╁╌       | $\vdash$        | $\dashv$ | $\vdash$        | $\dashv$ | 긕        |   | Н        | 98       | $\dashv$     | $\dashv$ | $\dashv$                                     | -+       | $\dashv$ | -        | ij       | -        | -            | 4        | -          |               |            | -        | <del>-</del> Ì | $\dashv$ |          | _i             | -          | $\dashv$ |                | -!       |
| H        | 4        |        | $\dashv$           | ᅦ                          | _                |          | 1        | H               | -        | $\vdash$        | ┥        | ⊣        |   |          | 99       | +            | $\dashv$ | $\dashv$                                     | +        | $\dashv$ | $\dashv$ | +        | -        | +            | 4        | $\vdash$   |               | 18         | $\dashv$ | $\dashv$       |          | $\dashv$ |                | -+         | +        | $\dashv$       | $\dashv$ |
| 1        | 5        | át     | +                  | -                          | _                | $\vdash$ |          | $\vdash \vdash$ | $\dashv$ | $\vdash$        | $\dashv$ | -        |   |          | 00       | $\dashv$     | $\dashv$ | +  | +        | +        | +        | $\dashv$ | -        | +            | $\dashv$ | $\vdash$   | P             | 49<br>50   | $\dashv$ | 4              |          | +        | $\dashv$       | -+         | $\dashv$ | $\dashv$       | $\dashv$ |
| _        | -1-2     | -      | _                  | _                          | _                | _        | •        |                 |          |                 |          |          |   |          |          |              | _        |  |          |          |          |          | _1       |              |          | ᆫ          | 103           | ᅺᆜ         |          |                |          |          |                |            | ᆚ        | ᆚ              |          |

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